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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/026,805	12/27/2001	Hiroyuki Kurata	2342-131P	1377		
2292 759	90 03/21/2006		EXAM	EXAMINER		
BIRCH STEW	ART KOLASCH & BI	MCCLENDO	MCCLENDON, SANZA L			
PO BOX 747	CH, VA 22040-0747	ART UNIT	PAPER NUMBER			
TALLO CHOK	, vii 220 10 0 / 11		1711			
			DATE MAILED: 03/21/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application	on No.	Applicant(s)	U			
		10/026,80	)5	KURATA ET AL.				
		Examiner		Art Unit				
	•	Sanza L. I	McClendon .	1711				
Period fo	The MAILING DATE of this communication or Reply	appears on the	cover sheet with the	correspondence addre	ess			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATION Insions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication is period for reply specified above is less than thirty (30) days, or period for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by streply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no even n. a reply within the state eriod will apply and wistatute, cause the app	ent, however, may a reply be ti utory minimum of thirty (30) da ill expire SIX (6) MONTHS from lication to become ABANDONE	mely filed  ys will be considered timely.  the mailing date of this comm  ED (35 U.S.C. § 133).	nunication.			
Status	·							
1) 又	Responsive to communication(s) filed on (	09 March 2006.						
· · · · ·	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
3)	,—							
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims	•						
		the application						
	Claim(s) <u>1-20,22 and 23</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.		noide, attorn.					
· —	☐ Claim(s) is/are allowed. ☐ Claim(s) <u>1-20,22 and 23</u> is/are rejected.							
	Claim(s) is/are objected to.							
	Claim(s) are subject to restriction a	nd/or election re	equirement.					
Applicati	ion Papers							
9)□	The specification is objected to by the Exar	miner .						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
,	Applicant may not request that any objection to		•					
	Replacement drawing sheet(s) including the co		·	, ,	1.121(d).			
11)	The oath or declaration is objected to by th	•						
Priority (	under 35 U.S.C. § 119							
<u></u>	Acknowledgment is made of a claim for for	eian priority un	der 35 II S.C. & 119/a	)-(d) or (f)				
	⊠ All b) ☐ Some * c) ☐ None of:	oigh phonty and	der 00 0.0.0. g 1 10(a	)-(d) or (i).				
-/-	1.⊠ Certified copies of the priority docum	nents have bee	n received.					
	2. Certified copies of the priority docum			ion No				
	3. Copies of the certified copies of the		• •		age			
	application from the International Bu	· -			-90			
* 5	See the attached detailed Office action for a	· ·	• • • •	ed.				
			,					
Attachmen	t(s)							
	e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948	•	Paper No(s)/Mail D	ate				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SI or No(s)/Mail Date	B/08)	5) Notice of Informal I 6) Other:	Patent Application (PTO-1	52)			

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### **DETAILED ACTION**

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## Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/09/2006 has been entered.
- 2. Prosecution on the merits of this application is reopened on claims 1-20 and 22-23 are considered unpatentable for the reasons indicated below:

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-20 and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamoto et al (JP 63-248807) in view of Yagi et al (JP 03-163182) and Yutaka et al (JP 04-028772).

Note: information is taken from the abstracts of each cited documents. A translation has been sent for, wherein once made available a copy will be provided to applicant.

Yamamoto et al teaches photosetting compositions usable as adhesive or sealant for optical instruments. The composition of Yamamoto et al comprises (A) a monomer having fluoroalkyl groups and (meth) acrylate groups and can be represented by the structural formula found in the abstract and those found in table 1 (pages 4-5), (B) a fluorine-containing polymer, such as a polymer composed of mainly fluoroalkyl (meth) acrylate, (C) a crosslinking acrylate monomer, and (D) a photoinitiator. Wherein said formula and compounds of table 1 anticipates at least one of the fluorine containing monomers of instant claims 1, 4-5, 12-14. Yamamoto et al does not expressly teach using fluorine-containing monomers having the general formula (2).

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Yutaka et al teaches UV curable difunctional fluorine containing acrylic monomers in combination with fluorine-containing polymers are well known in the adhesive art. Said di-functional fluorinated (meth) acrylate monomers can be found on page 5 both columns. Yamamoto et al and Yutaka et al are analogous art because they are from the same field of endeavor that is the art of fluorine-containing UV curable adhesives. Therefore one of ordinary skill in the art at the time of the invention would have found it obvious to use the monomers as taught by Yutaka et al in the composition as taught by Yamamoto et al. The motivation would have been a reasonable expectation of obtaining an adhesive composition with adequate crosslinking to provide the desired adhesive strength upon curing in the absence of evidence and/or unexpected results. Therefore the combination of references renders claims 15-17 obvious.

Yamamoto et al does not expressly teach a copolymer comprising the structural units claimed by applicant. Yagi et al teaches adhesive compositions are prepared by dissolving an acrylic monomer-soluble fluorocarbon polymer in an acrylic monomer, polymerizing the solution, and optionally further converting the polymer into an interpenetrating network. Yagi et al teaches the fluorocarbon polymer can be copolymer or terpolymers comprising vinylidene fluoride, such as tetrafluoroethylene/tetrafluoropropylene/vinylidene fluoride terpolymer—see page 2, lines 10-15. In addition, Yagi et al teach the acrylic monomers such as methyl methacrylate and fluorinated acrylic monomers. The examiner deems that Yagi et al shows that adhesives comprising fluorinated polymers and fluorinated monomers are well known in the art.

Yamamoto et al and Yagi et al are analogous art because they are from the same field of endeavor that is the art of fluorinated acrylic adhesive compositions.

Therefore it would have been obvious for an artisan of ordinary skill in the art at the time of the invention to use the vinylidene copolymers of Yagi et al in the adhesive composition as taught by Yamamoto et al. The motivation would have been a reasonable expectation of obtaining an adhesive composition having adequate heat resistance, good transparency, and good adhesivity as taught by both Yamamoto et al and Yagi et al in the absence of unexpected results and/or convincing arguments to the contrary.

Yamamoto et al and Yagi et al do not expressly teach using said adhesive for the production of a pellicle. However, it is well-known in the art of pellicle films to adhere a pellicle films to pellicle frames using fluorinated adhesive composition as disclosed in the description of the Related Art section. Therefore it would have been obvious for an artisan of ordinary proficiency to use the combined teachings of Yamamoto et al and Yagi et al to produce a pellicle. In addition to it being common knowledge in the pellicle art, Yamamoto et al teaches using said fluorinated adhesives as sealant and adhesives for optical instruments, wherein the pellicles would be included the broad disclosure of optical instruments.

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The combination of references is deemed to render the invention of claims 1-8 and 12-17 obvious. Claims 18-20 are rejected because they do not further limit claims 1, 4, or 5. Claims 1, 4, and 5 are deemed to be unpatentable over the combination of reference because the combination teaches at least one or two of the fluorine containing monomers found in the instant claims. The combination of references does not expressly teach the ratio of polymer to monomer as found in instant claims 9-11; however since applicant has failed to establish the criticality of said ratio's, the examiner believes the adhesive would have worked equally as well with any ratio in the absence of evidence to the contrary. In addition, the examiner deems that it would have been within the skill level of an ordinarily skilled artisan to calculate the instantly claimed ratio. The motivation would have been a reasonable expectation of obtaining satisfactory bond strengths between the pellicle frame and pellicle film after cure in the absence of evidence to the contrary and/or unexpected results.

### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanza L. McClendon whose telephone number is (571) 272-1074. The examiner can normally be reached on Monday through Friday 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Examiner

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